• COLORADO RIVER •

AQUEDUCT NEWS

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

VOLUME XXVI JULY, 1959 NUMBER 7

District Water Deliveries Highest In Aqueduct History

Despite the record low rainfall this year, there will be no water shortage in the Southern California areas served by the Metropolitan Water District thanks to the Colorado River Aqueduct, Robert B. Diemer, General Manager and Chief Engineer of the District, said this month.

In seeking to allay any fears of water rationing because of shortages, Mr. Diemer pointed out that during the recently completed fiscal year the District delivered more than 600,000 acre-feet of Colorado River water to the coastal plain of Southern California.

"This is the largest amount of water the District has delivered in any one year since the Aqueduct was placed in operation in 1941, and by early next year we will be able to deliver double that amount, or more than one billion gallons of water a day," Mr. Diemer declared.

He said that the increased deliveries will be made possible by the $200 million Aqueduct expansion program started by the District in 1952 and scheduled for completion early in 1960.

"This work will bring the Colorado River Aqueduct to its full planned delivery capacity and will enable us to meet the increasing water needs of our people for the next 15 years," Mr. Diemer stated.

He pointed out that the Metropolitan Water District extends into the five counties of Los Angeles, Orange, Riverside, San Bernardino and San Diego and includes approximately one-half of the population and assessed valuation of the entire State. This means a population of more than seven million and an assessed valuation in excess of $12 billion. It is comprised of the 13 original District cities that started the Aqueduct project in 1932, nine municipal water districts and one county water authority.

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Shown above is a portion of the Casa Loma siphon now being constructed by the American Pipe and Construction Company. This work is located just west of the west portal of the San Jacinto tunnel near U. S. Highway 79. The pipe siphon has an inside diameter of 13 feet 6 inches and a capacity of 1000 cubic feet per second. At top center, the new line is being tunneled under the existing 96-inch San Diego Aqueduct. At the left is a well point system and a pump to remove ground water from the construction area.

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District Files Brief In Supreme Court Suit

Special Counsel James H. Howard reported to the District Board of Directors recently that theories advanced by Arizona and the United States in briefs they submitted to the Court in the Arizona vs. California Supreme Court Suit have necessitated the submission of a supplementary brief by the Metropolitan Water District.

The theories set forth by Arizona and the United States involve completely new interpretations of the Colorado River Compact and the Statutory Compact between California and the United States, Mr. Howard said.

The supplementary brief submitted to the Court by the District in cooperation with the City of Los Angeles and the City and County of San Diego holds that the contracts involved still mean exactly what they meant when they were written and acted upon and are not subject to later interpretations "conceived by the ingenuity of Counsel."

In its Conclusion the District brief states, in part:

"Had Metropolitan been advised that the Compact or the Statutory Compact meant what they are now asserted to mean by Arizona and the United States, or even if it had been advised that any one would seriously contend that such was the interpretation, Metropolitan certainly could not have financed or prosecuted its Colorado River Aqueduct Project, and made the great expenditures involved. At a minimum it would have been bound, as a practical matter, to secure some clarification of its rights.

"In attempting to mold and remold the meaning of the Compact and the Statutory Compact, Counsel for Arizona have dug themselves ever deeper into the mire of confusion, until, at last, they produce a result unimagined in the days when Metropolitan entered into the Col-

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State Water Official Meets With District Board

Harvey O. Banks, Director of the Department of Water Resources, met with the Metropolitan Water District Board of Directors on July 7 to discuss his plans for an immediate start on certain phases of the State's water development program.

Mr. Banks said that the first steps to be taken on the contemplated Feather River project, the initial phase of the water development program, will be the acquisition of the necessary rights of way for an aqueduct from the delta area near Sacramento to Southern California and the purchase of reservoir sites at Castaic, Cedar Springs and Perris.

In November, 1960, the people of California will vote on a bond issue of $1,750,000,000 to finance the first development of the California Water Plan. Prior to the vote on the bond issue, Mr. Banks stated, work on the project will be financed from $190,000,000 from tideland oil revenues designated by the Legislature for water development.

Board Authorizes Study For Additional Water Supply

An extensive study by the General Manager and Chief Engineer to determine the most effective and economic means of co-relating an additional water supply from the North with existing Southern sources was authorized by the Metropolitan Water District Board of Directors in a resolution adopted at the Board's July 7 meeting.

Following is the text of the resolution:

"BE IT RESOLVED, that the General Manager and Chief Engineer be directed to make a comprehensive study and report to the Board of Directors by January 1, 1960 on the most effective and economic means of co-relating an additional water supply from the North with the water from existing sources in Southern California; and,

"BE IT FURTHER RESOLVED, that the General Manager and Chief Engineer be authorized to employ such additional personnel and negotiate such contracts with individuals or agencies as may be required for such purposes; and,

"BE IT FURTHER RESOLVED, that the General Counsel be directed to report to and advise the Board with respect to legal questions in connection with water supply studies hereby authorized."

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For the RECORD

(The following items are noted from the report of General Manager and Chief Engineer Robert B. Diemer, filed July. 1959, covering District operations for June, 1959.)

Colorado River — The water surface of Lake Mead rose 7.29 feet to elevation 1,179.87 feet and usable storage increased 949,000 acre-feet to 21,169,000 acre-feet on June 30, 1959. Present storage content is 78% of the reservoir's usable capacity below the spillway crest. Average rate of discharge at Hoover Dam for June was 12,770 cubic feet per second, compared with 13,460 in June, 1958.

Power and Pumping—Hayfield plant delivered 62,394 acre-feet of Colorado River water for distribution during June. Pumping was on a throttled six-pump basis except from 1:30 p.m. June 12 to 3:20 p.m. June 17 and from 1:25 a.m. June 21 to 10:30 a.m. June 26, when pumping was reduced to five pumps. The District's share of Parker energy amounted to 27,044,722 kwhrs. Peak deliveries to and from the Edison Company were 44,000 kw and 165,000 kw respectively.

Weymouth Softening and Filtration Plant—Colorado River water was softened from 308 to 211 ppm of hardness at an average rate of 548 cfs during June. Daily rate of flow varied from a maximum of 604 cfs to a minimum of 463.

Construction — On installation of Pumping Units 7, 8 and 9, the contract is 90% complete. At Intake, work is 88% complete; at Gene, 97%; at Iron Mountain, 94%; Eagle Mountain, 88%; and 86% complete at Hayfield.

The contract is 65% complete on Canals and Box Siphons—Schedules 11C, SD1C, SD2C, SD3C, and SD4C.

On Pipe Line Schedules SD8P and SD9P, scheduled for completion June 30; Schedules SD10P and SD11SC, work is practically complete.

Work on Pipe Siphons — Schedules 11P, 12P and SDXP — work is 67% complete.

Work on Pressure Control Structures (Lower Feeder) is 7% complete, with work progressing at the Orange County interconnection, Coyote Creek location, and the San Gabriel River location.

On the Enlargement of Lake Mathews, work on the contract is 7% complete.

Purchasing—Total expenditures covered by 439 purchase orders and 7 agreements during June aggregate approximately $120,136.

District Water Deliveries

(Continued from Page One)

Referring to the increased water deliveries during the 1958-59 fiscal year, Mr. Diemer cited the City of Los Angeles as an example. During the 1958-59 period, Los Angeles received 82,817 acre-feet of Colorado River water as compared with 37,729 acre-feet during the 1957-58 fiscal year, an increase of about 120 per cent.

"While Los Angeles was one of the original 13 cities in the Metropolitan Water District, it has taken comparatively little Colorado River water until this year, drawing instead on local supplies and on the Owens River Aqueduct," Mr. Diemer said.

"Now the mushrooming population is continually creating an increased demand for additional water. The Metropolitan Water District stands ready to meet the need and is doing so as is shown by the increased use of Colorado River water by Los Angeles and other District cities and areas," Mr. Diemer declared.

He pointed out that despite the dry year, Los Angeles has been able to maintain a high level of water in its reservoirs because of the availability of Colorado River water.

"Most of our constituent cities and areas, with a few exceptions, show an increase in the use of Colorado River water over the previous fiscal year. Total deliveries through the Aqueduct for the 1958-59 year were 601,097 acre-feet as compared with 539,732 for the previous year, an over-all increase of 11.4 per cent," Mr. Diemer said.

"When the Aqueduct is brought to its full planned capacity, there will be a number of years when large quantities of water will be available to be used to replenish underground basins which have been badly depleted by overpumping. It is strongly urged that this available water be stored underground to raise Southern California underground water levels," Mr. Diemer concluded.

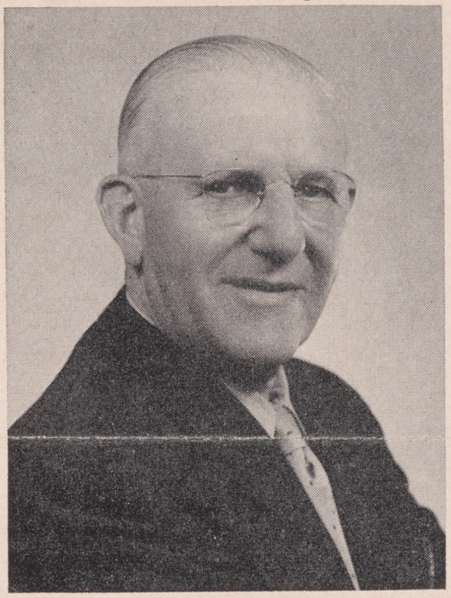
Water Supply Study

(Continued from Page Two)

Another resolution, relating to saline water conversion, was adopted by the Board. It states:

"BE IT RESOLVED, that the proposal of the Fluor Corporation to undertake a study of the feasibility of saline water conversion as it may apply to Southern California be accepted by the Board of Directors, at an estimated cost not to exceed $10,000."

District Board Mourns Death of Nelson Hayward



Nelson Hayward

Director Nelson Hayward, Chairman of the Water Problems Committee of the Metropolitan Water District Board of Directors, died July 4, following a stroke suffered last month. Mr. Hayward represented the Foothill Municipal Water District on the District Board. He was also a member of the Board's Engineering and Operations Committee.

Mr. Hayward was born in London, England, in 1886 and came to the United States in 1910. He settled in southern Idaho where he became engaged in agricultural and irrigation projects. He served as President of the Twin Falls Salmon River Canal Company for nine years and was Director of the Salmon River Irrigation District and of the Oakley Canal Company.

In 1928, Mr. Hayward moved to California to manage a large farm and irrigation enterprise in Glenn and Colusa Counties in the Sacramento Valley. In 1929, he was invited into the management of the Ray Oil Burner Company of San Francisco. He became Executive Vice President, Director and General Manager in 1933.

He retired in 1945 and moved to Southern California. He located in La Crescenta in 1947 and, in 1949, became a Director of the Mountain Water Company. He played a leading role in the formation of two public agencies to bring Colorado River water to all of the Foothill areas north of Pasadena and Glendale. These areas were admitted to the Metropolitan Water District in 1953, and Mr. Hayward was named to the District Board in 1955.

Funeral services were conducted at St. Luke's of The Mountains Episcopal Church in La Crescenta on July 8.

Mr. Hayward is survived by his wife, Mrs. Olga Hayward, La Crescenta; a daughter, Mrs. Marjorie Hansen, Daly City; a brother, Norman, Hollywood; and a sister, Florence Trevanion, London, England.

Supreme Court Suit

(Continued from Page Two)

orado River Aqueduct Project; a result which, if sustained, would bring ruin to a vast investment in physical works and to a great existing economy dependent thereon.

"If able counsel legitimately and in good faith can, from time to time, derive such widely varying meanings from the Colorado River Compact and related documents, as are evidenced by the shifts of the Arizona position hereinabove outlined, it would appear that the document lacks that certainty essential to validity. We submit, however, that such is not the case. The Compact exists, and still means what it meant in the period, 1922-1933."

In another report to the Board of Directors, Mr. Howard stated that on June 30 the California defendants in the suit, including the Metropolitan Water District, filed a rebuttal brief in which the various positions of the several parties to the litigation were analyzed and answered.

He told the Board that rebuttal briefs had been received from the United States, Nevada, New Mexico and Utah but none had been received from Arizona.

Mr. Howard said that there is the possibility that Arizona will file a rebuttal brief later, but presumptively the case is now before the Special Master for decision.

"At the close of the trial, it was announced that the Special Master's proposed Report to the Court would be circulated among counsel, either in its entirety or in installments, before presentation to the Court. Such preliminary consideration of the report will, no doubt, invite further oral or written comment from some or all of the parties.

"We have no basis for forecasting the time when the Special Master's Report to the Supreme Court will be filed. It seems unlikely, however, that the case can be ready for argument on exceptions to the Special Master's Report prior to the October term, commencing in 1960," Mr. Howard's report concluded.

NEWS FROM FIELD AND OFFICE

District youngsters at Iron Mountain Pumping Plant have a great time at the swimming pool during the hot weather. Left to right, top row, are Kay Sams, daughter of Mr. and Mrs. Ralph Sams, Joan and Bill Dussaman, children of Mr. and Mrs. Eddie Dussaman, Jerry Wooley, son of Mr. and Mrs. Richard Wooley, and Donna Nicholson, daughter of Mr. and Mrs. C. W. Nicholson. Front row, left to right, are Mike and Carrie Moser, children of Mr. and Mrs. James Moser, Sandra Blanchard, daughter of Mr. and Mrs. Benjamin Blanchard, and Chester, Kurt and Jimmy Rush, sons of Mr. and Mrs. Freddie Rush, Jr.

Mr. and Mrs. Bill Dickens welcomed a new addition to their family on July 8 when a baby boy arrived at Garfield Hospital. He weighed 6 pounds 15 ounces and has been named George Eugene. Bill is an Engineering Aide in the Los Angeles office.

* * *

Earl Reeder, Associate Engineer, and his wife, Mary Lou, welcomed their fourth child on July 22 when a baby girl arrived at Studebaker Hospital in Norwalk. The second daughter for the Reeders weighed 7 pounds 5½ ounces and has been named Dannette.

* * *

Mrs. Martha McCleary, wife of W. F. (Mac) McCleary, Resident Engineer, underwent surgery in the Riverside Community Hospital on July 7. She is now home and well on the road to recovery. At the same time, the McClearys' daughter, Beverly, was in the same hospital receiving treatment for ptomaine poisoning. She, too, has recovered and is now back on her job as a stewardess with Western Airlines.

* * *

A baby shower for Mrs. James Alan Reider, daughter-in-law of Mr. and Mrs. Joe Reider, was held at the S. J. King home on June 27 with a large number of Gene Village ladies in attendance. Hostess for the evening was Judy King. The guests included Jean Carnahan, Nancy Crawford, Mildred Dunn, May Green, Dorothy and Patty Ayers and Dorothy's sister, Virginia Barton, Thelma Gabele, Lucille Graham, Libby Clarey, Jerri Holt, Janet Murphy, Mary Kaye Nichols, Rena Smith, Ardys and Eileen Stewart, Charlotte Naffziger, Jeanne Ripberger, Edwina Taylor, Joan Whaley and Ruby Whaples.

* * *

L. H. Peterson, an American Red Cross swimming and life guard instructor, conducted classes for children and adults at the Gene Recreation Center July 13-17. In addition to swimming lessons, he conducted classes in life saving and first aid. Joan Whaley, Ardys Stewart and Ransom Rush received badges denoting them Water Safety Instructors or First Aid Instructors.

* * *

James Moulton, Senior Inspector, and his wife, Carol, celebrated the Fourth of July with the arrival of their third youngster, Catherine Ann. The young lady arrived at Kaiser Fontana Hospital weighing 7 pounds 12 ounces.

* * *

Joan Marie Bonelli, daughter of Frieda Bonelli, Mails and Files Clerk, was married to Robert Weinman on June 20 at the Emmaus First Lutheran Church in Alhambra. Joan's father, Mel, now deceased, was a former "aqueducter" and Joan was an aqueduct baby.

* * *

Mr. and Mrs. Tom Walters have announced the marriage of their daughter, Susan Carol, to Raymond W. Siville on June 1. The nuptial ceremony was held at the Brethren Church of Christ in San Bernardino. Tom is a Maintenance Mechanic on Aqueduct Maintenance.

* * *

Viola Crutcher, Personnel and Information Secretary, is as pleased as she can be over the arrival of her fifth grandchild on July 1. The baby girl is the daughter of Tom and Ellen Crutcher. She made her debut at the Queen of Angels Hospital weighing 7 pounds 9½ ounces and has been named Lauren Mari.

Miyo Shirahama, who is expecting a blessed event in the near future, resigned her position as Stenographer in the office of Senior Engineer Maynard Anderson this month. On her last day at the office, a number of District friends presented her with a baby jumper, a kiddie back-seat driver kit, a beautiful nightgown and a baby blanket. Left to right are Pearl Yonashiro, Nobu Masuda, Georgianna Joseph, M. G. Smedegaard, Miyo, Maynard Anderson, Anne Vinci, Evelyn Lauricella, Freda Dickerson and Estelle Quick.